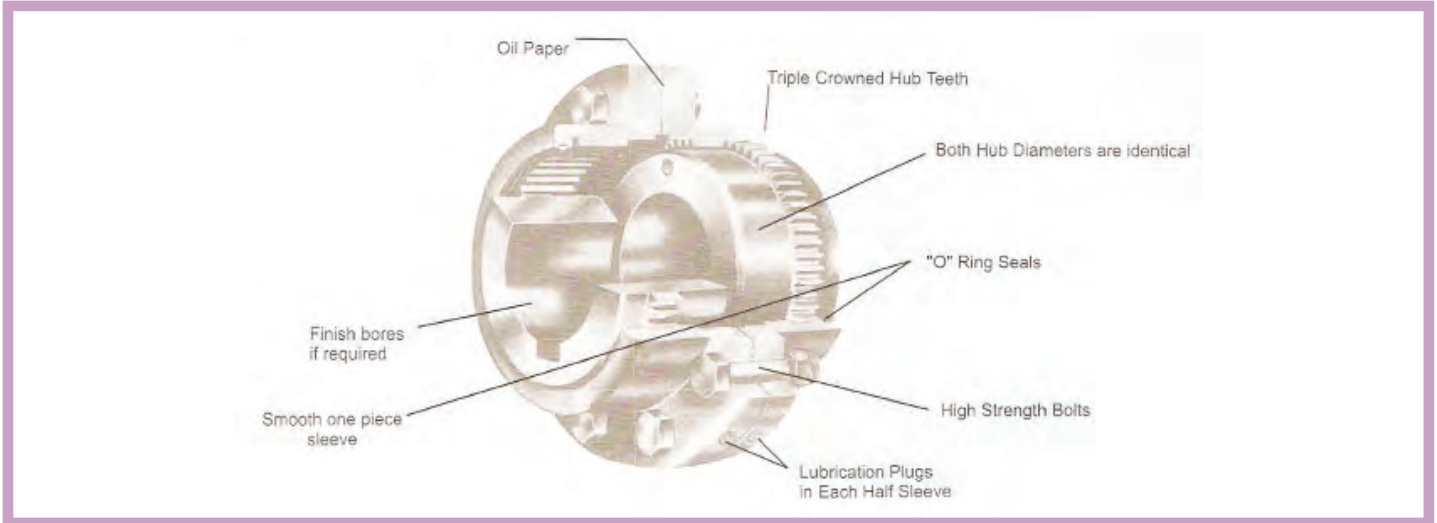


## DRIVES & DRIVES FLEXIBLE GEAR COUPLINGS

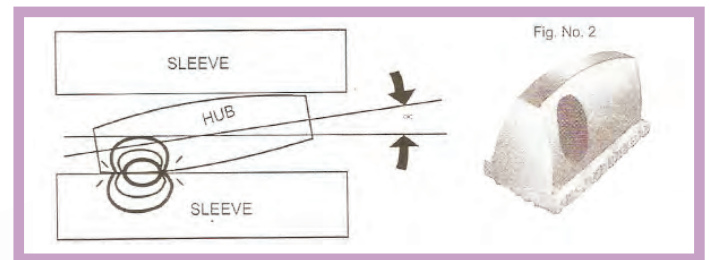
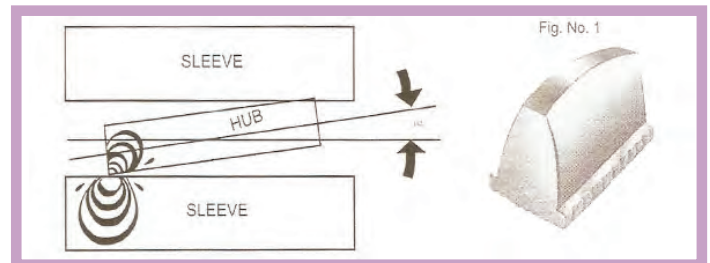


Under the misalignment condition of two shafts of the equipments, the teeth contact in case of straight cut hub will be as minimum as shown in the figure No. 1

Under heavy loads the ends of the hub teeth will get damaged resulting in the excessive play between hub & sleeve. And, therefore the reduction in life of coupling.

**TRIPLE - CROWNED TEETH**  
 The triple crowned teeth hub is manufactured on a fully automatic hobbing machine with built in crowning attachment which is controlled by hydraulic & electronic system.

Under the misalignment condition of two shafts on the equipment, due to the curvature on teeth flank the contact area is much more and therefore, there is increase in life of coupling.



**MISALIGNMENT DETAILS** – In case of straight tooth gear coupling the maximum allowable angular misalignment ( $\infty$ ) is 1.1/2 deh. And in case of Triple, crowned tooth Gear Coupling the misalignment is 7.1/2 deg.

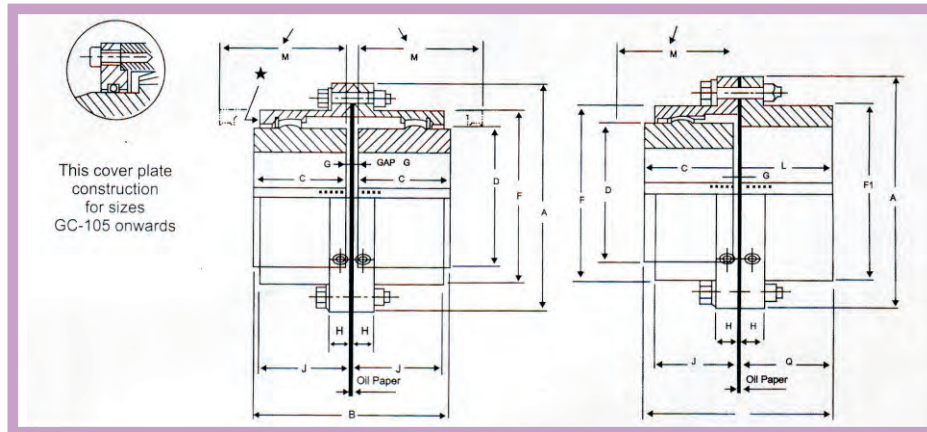
### SERVICE FACTORS

### PRIME MOVER

Driven Unit ( Machinery)	Electric Motor Or Steam Turbine	Gasoline or Diesel Engine 4 or more Cyl.	Gasoline or Diesel Engine More than 6 Cyl.
<b>LIGHT</b> Uniform of steady load never exceeding horse power rating, infrequent starting : Agitators, Blowers, Can filling Machines, Conveyors, Fans , Generators, Pumps, Steering Gear, Stokers.	1.0	1.5	2.0
<b>MODERATE</b> Heavy inertia. Moderate shock, frequent starting : peak loads do not exceed 125% average horsepower. Uneven load : Conveyors, Feeders, Welding, Laundry Washers, Mixers Paper Mills, Printing Presses, Screens, Textile Industry. Car Pullers.	1.5	2.0	2.5
<b>HEAVY</b> Heavy shock conditions or frequent reversing peak loads do not exceed 150% average horsepower. Uneven load, Cranes & Hoists, Crushers, Dredges, Elevators, Hammer Mills, Lumber Industry. Machine Tools, Metal Mills, Oil Industry, Rubber Industry Windlass.	2.0	2.5	3.0

## DRIVES & DRIVES FLEXIBLE GEAR COUPLINGS

### MINIMUM CLEARANCE REQUIRED FOR ALIGNING



FULL FLEXIBLE TYPE

HALF FLEXIBLE TYPE

COMMON FOR BOTH COUPLINGS											FULL FLEXIBLE TYPE					HALF FLEXIBLE TYPE						
DD G.CNO	HP CAPACITY AT 100 R.P.M	MAX. TORQUE KG.M	MAX. R.P.M	BOR E MIN	A	C	D	F	M	G	H	BOR E MAX.	J	B	WR2 KG.M2	WcIN KG.	K	Q	BOR E MAX.	WR2 KG.M2	F	WT. IN KG
DD - 100	7	50	8000	10	120	45	50	75	55	1.5	15	32	40	93	0.03	4.5	93	46.5	45	70	0.04	5
DD-1 01	14	100	6300	20	170	55	65	110	65	2.5	17	45	49	115	0.14	11'	115	57.5	60	85	0.15	11
DD-1 02	35	250	5000	30	185	70	85	125	80	2.5	17	60	62	145	0.20	15	145	72.5	75	110	0.24	15
DD-1 03	63	450	4000	40	220	85	105	150	105	2.5	20	75	78	175	0.48	25	175	87.5	90	130	0.51	20
DD-1 04	119	850	3350	50	250	105	130	175	125	2.5	20	90	96	215	0.95	39	215	107.5	110	160	1.0	40
DD-1 05	182	1300	2800	60	290	110	155	200	140	5	25	110	106	230	1.90	57	230	115	130	185	2.0	60
DD - 106	280	2000	2500	75	320	125	175	230	155	5	25	125	117	260	3.00	85	260	130	150	215	3.3	80
DD-1 07	490	3500	2100	90	350	140	205	260	175	5	25	140	134	290	5.25	108	290	145	170	240	5.8	106
DD-1 08	630	4500	1900	105	380	155	230	290	190	5	25	160	147	320	8.50	138	320	160	200	285	9.5	149
DD-1 09	784	5600	1700	125	430	165	250	330	205	5	27	180	156	340	15.00	210	340	170	220	315	16.8	170
DD-1 10	1148	8200	1400	140	490	180	310	390	220	5	27	220	171	370	30.50	277	370	185	240	370	35.0	264
DD-1 11	1536	11000	1250	160	545	200	350	445	240	5	30	260	192	410	58	530	NOTE 1. Made to order/special Gear Couplings also can be manufactured. 2. Dynamic balancing & Heat Treatment will be done on request.					
DD-1 12	2053	14700	1120	180	590	240	400	490	280	5	30	300	231	490	88	710						
DD-1 13	2793	20000	1000	200	680	260	440	555	310	7.5	35	330	242	535	138	980						
DD-1 14	3994	28600	900	220	730	280	500	610	330	7.5	35	370	266	575	291	1320						
DD-1 15	4852	34750	800	250	780	320	540	660	370	7.5	35	410	305	655	353	1700						

### HOW TO SELECT THE RIGHT GEAR COUPLINGS

1. Select the size Couplings that will accommodate the diameter of the largest shaft. Usually this will determine the proper size Coupling for your application.

2. To make sure this Coupling has the required capacity : a) Check your application against the Service Factor Chart.

b) Use the following formula to obtain the HP per 100 RPM of your application

$$\frac{HP \times \text{SERVICE FACTOR} \times 100}{RM} = HP / 100 \text{ RPM}$$

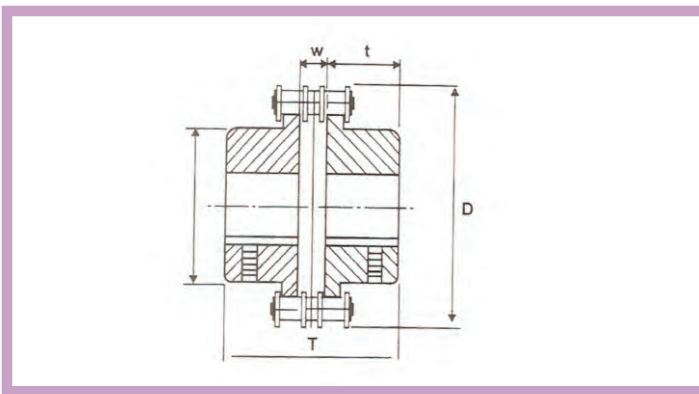
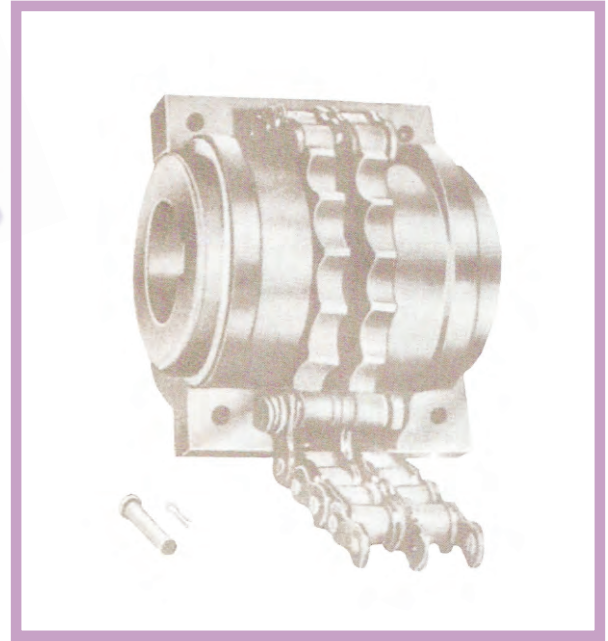
## ROLLER CHAIN FLEXIBLE COUPLING

DRIVES & DRIVES Roller chain Flexible Couplings are compact, all steel, long lasting flexible couplings, capable of transmitting relatively high torques with minimum of space consumption. Consequently, they provide a most economical means of positive transmission of power from one shaft to another.

The simple design and construction of these couplings make them extremely easy to install and disconnect, providing additional economy of operation.

The sprockets are identical in construction, thus providing a balanced unit in operation and reducing effects of vibration. In addition, the flexibility of roller chain plus clearance between the chain rollers and sprocket teeth allow for slight misalignment and shaft end float.

Stock Couplings sizes will usually meet most power transmission requirements. However when necessary special couplings can be furnished on a made to order basis to suit a particular application. In such cases, complete information should be given when requesting a recommendation or quotation. This includes horsepower and RPM requirements, hub dimensions, bore and key way sizes, and general operating conditions.



## DRIVES & DRIVES COUPLING COVERS

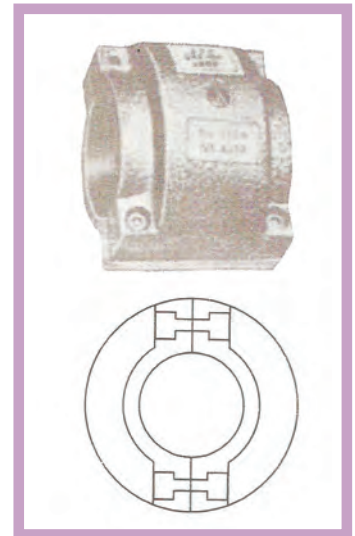
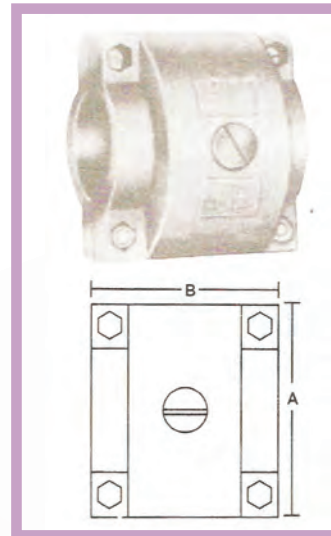
Plastic / Aluminium

Aluminium covers are available for all the sizes.

Plastic covers are available only for sizes upto

NT - 1218

CHAIN COUPLING SIZE	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MN	MAX						
DD 6112	3812	10.00	16	65	30	5.0	27	45	0.30
DD 8312	4012	10.00	22	79	36	7.0	35	60	0.80
DD8316	4016	12.00	32	79	36	7.0	50	77	1.60
DD1016	5016	16.00	42	96	44	8.0	61	96	2.60
DD 1018	5018	16.00	48	98	45	8.0	71	106	3.50
DD 1218	6018	20.00	60	121	56	9.0	88	126	6.5
DD 1222	6022	20.00	76	121	56	9.0	110	150	10.0



CHAIN COUPLING SIZE	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MN	MAX						
DD 1618	8018	25	80	150	67	16	115	170	14.5
DD 1622	8022	25	95	150	67	16	140	201	20.0
DD 2020	10020	40	110	200	91	18	160	231	33.5
DD 2418	12018	50	119	260	118	24	169	254	51.0
DD 2422	12022	50	150	260	118	24	208	301	76.0
DD 3218	16018	50	160	360	165	30	220	341	121.0
DD 3222	16022	50	199	360	165	30	280	410	170.0
DD 4018	20018	80	205	517	240	37	295	425	425.0
DD 4022	20022	80	260	517	240	37	373	507	450.0

CHAIN COUPLING SIZE	ASA No	A	B	Wt. Kg.
DD 1618	8018	195	130	2.3
DD 1622	8022	220	132	2.4
DD 2020	10020	258	178	3.4
DD 2418	12018	292	220	5.9
DD 2422	12022	340	220	7.3
DD 3218	16018	385	240	14
DD 3222	16020	472	250	17
DD 4018	20018	496	280	22
DD 4022	20022	578	280	26

CHAIN COUPLING SIZE	ASA No	A	B	Wt. Kg.
DD 6112	3812	69	59	0.2
DD 8312	4012	75	68	0.2
DD8316	4016	90	70	0.4
DD1016	5016	110	86	0.6
DD 1018	5018	121	86	0.8
DD 1218	6018	149	90	1.2
DD 1222	6022	173	110	1.6

## SELECTION OF THE COUPLINGS

- Decide service factor for the unit for which the chain couplings is to be filled by considering the hours of service, type of the power unit tec. from the following table :-

Driven equipment			Source of Power		
Service classification	Kinds	Characteristics	Electric motor or steam turbine	Steam or Gasoline engine 4 or more cyl.	Diesel or Gas Engine
A	Centrifugal fans, blowers of pumps conveyor evenly loaded.	Even load – 8 hours/ day service, Non – reversing – low torque starting.	1	1.5	2.0
B	Compressor, Conveyor, pulsating load machines, kilns and driers, speeds reducers, Multi cylinder pumps, wood working machines, etc.	Uneven load – 8 hours/day service, Moderate shock or torsional loads, non-reversing. This is the most common type of service.	1.5	2.0	2.5
C	Presses, crushers, impact loads, oil well pumping equipment.	Heavy shock load – 8 hours/day service. High peak torsional loads, reversing underload. Full load starting.	2.0	2.5	3.0

- For 8 to 16 hrs/day service use next step service factor.
- For 16 to 24 hours/day service use service factor two step higher loading.
- Multiply horsepower of driver unit by the service factor. This is the design horsepower.
- Note the maximum rpm. At which the unit will run and its shaft diameter.
- From H.P rating table select the coupling size which is rated equal to or slightly greater than design H.P required at the rpm. At which the coupling is to operate.
- Also make sure that the diameter at the shaft is less than the maximum bore permissible on the coupling. If the coupling is not large enough to accommodate the shaft size, use the next coupling which can be bored to suit the shaft requirement.

### Horse Power Ratings Table

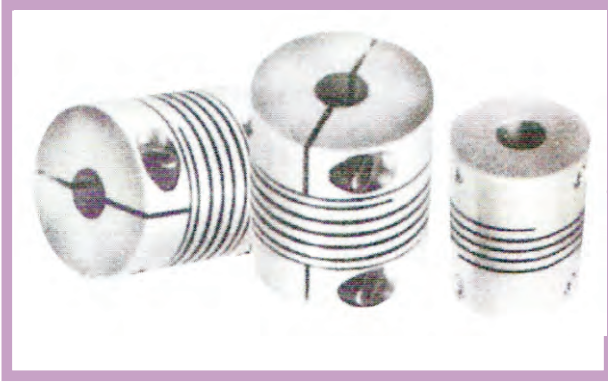
COUPLING SIZE	EQUI. ASA NO.	MAX. BORE	REVOLUTIONS PER MINUTE																							
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
DD6112	3812	16	0.013	0.066	0.146	0.346	0.693	1.053	1.613	2.106	2.520	3.010	3.440	4.253	5.173	5.880	7.133	8.333	8.973	10.82	12.58	14.66	16.00	18.86	19.73	22.26
DD8312	4012	22	0.026	0.146	0.293	0.773	1.533	2.306	3.506	4.613	5.533	6.613	7.560	9.346	11.37	12.90	15.46	18.26	19.73	23.56	27.60	32.13	35.06	41.06	41.06	
DD8316	4016	32	0.053	0.280	0.546	1.373	2.746	4.120	6.253	8.226	9.880	11.80	13.46	16.66	20.40	23.06	28.00	32.53	35.06	42.53	49.33	57.33	62.53	73.20		
DD1016	5016	42	0.106	0.520	1.040	2.600	5.213	7.813	11.89	15.60	18.80	22.40	25.60	31.73	38.53	43.86	53.20	61.86	66.66	80.80	93.86	108.80				
DD1018	5018	48	0.133	1.666	1.320	3.306	6.600	9.906	15.06	19.86	23.73	28.40	32.53	40.13	48.80	55.46	66.733	78.40	84.53	102.40	118.13					
DD1218	6018	60	0.240	1.240	2.493	6.226	12.44	18.66	28.40	37.33	44.80	53.46	61.20	75.73	92.13	104.53	126.93	148.0	160.0	193.33						
DD1222	6022	76	0.333	1.666	3.346	8.413	16.66	25.06	38.13	50.26	60.40	72.13	82.53	102.0	124.13	140.0	170.66	198.66	214.66	260.0						
DD1618	8018	80	0.546	2.760	5.520	13.73	27.60	41.33	62.93	82.90	99.33	118.86	134.66	168.0	204.0	232.0	281.33	328.0	353.33							
DD1622	8022	95	0.786	3.946	7.906	19.73	39.46	59.33	89.60	118.86	141.33	169.33	194.66	240.0	292.0	332.0	402.6	469.33	505.33							
DD2020	10020	110	1.240	6.213	12.44	31.06	62.13	93.33	141.33	166.66	224.0	266.66	305.33	377.33	460.0	522.66	634.66	738.66								
DD2418	12018	119	1.866	9.360	18.66	46.80	93.60	140.0	213.33	280.0	336.0	402.6	460.0	568.0	692.0	786.86	954.66									
DD2422	12022	150	2.413	12.09	24.13	60.40	120.93	181.33	274.66	362.66	434.66	520.0	594.66	734.66	894.66	1016.0										
DD3218	16018	160	4.040	20.13	40.40	101.06	201.33	302.66	460.0	606.66	728.0	869.33	994.66	1229.3	1496.0											
DD3222	16022	199	5.906	29.46	59.06	146.66	294.66	444.00	674.66	886.66	1065.3	1272.0	1453.3	1800.0	21.86											
DD4018	20018	205	8.080	40.40	80.80	201.33	404.00	605.33	921.33	1212.0	1453.3	1733.3	1986.6	2453.3	6											
DD4022	20022	260	10.17	50.93	101.73	254.66	509.33	762.66	1161.33	1520.0	1826.6	2186.6	2506.6													

## LUBRICATION

Couplings operating without covers under fairly clean conditions will give satisfactory service providing they are periodically [weekly] brushed thoroughly with ball grease of medium consistency. Couplings operating with covers should be kept filled with a good quality ball grease of soft or medium consistency.



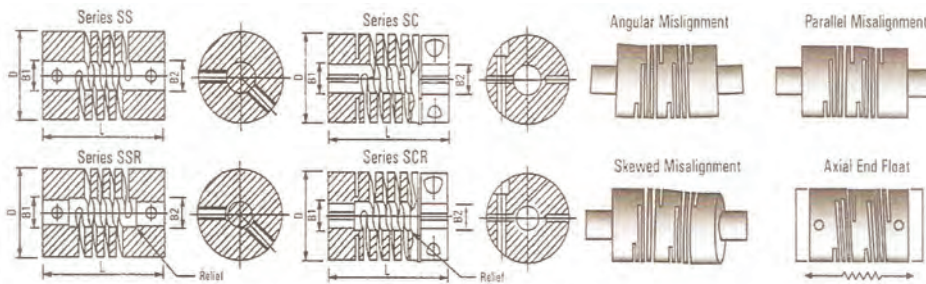
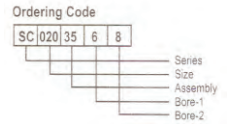
## SPIREX ENCODER COUPLINGS



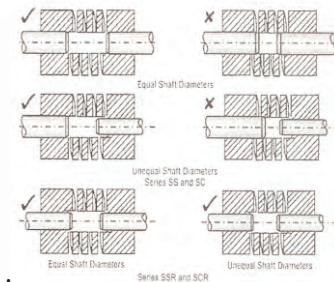
Several overlapping helical cut are machined into one piece of material, thereby providing for flexing properties which compensate for angular, parallel and axial misalignments, spirex couplings have minimum windup and transit torque with constant velocity.

Encoders, resolvers and other rotating instruments are only as accurate as the flexible coupling that connects them to the system they are monitoring,

Spirex Couplings can be designed to your requirements by changing the length, diameters, thickness and height of beams, and in alternate materials like stainless steel, copper, steel, etc.



Size	D	Std L	Non-Std L	Bore			B1	B2	Static Torque (Nm)	Misalignment		
				Min	Max					Angular (deg)	Parallel (mm)	Axial (mm)
					SC	SS						
014	14	21	20-29	3	5	5	3 3 4 4	3 4 4 4	0.96	5	0.17	0.12
016	16	23	20-29	3	7	7	4 5 6	5 5 6	1.81	5	0.20	0.12
020	20	28	15-20 21-29 30-34 35-40 41-45	5	8	10	5 6 6 8	6 6 8 8	2.83	5	0.25	0.25
025	25	30	15-20 21-29 30-34 35-40 41-45 46-50 51-55	6	12	14	6 6 6 8 10	6 8 10 8 10	6.78	5	0.38	0.25
032	32	40	20-29 30-34 35-40 41-45 46-50 51-55 75-85 86-90	10	16	18	10 10 14 16	16 16 14 16	11.30	5	0.50	0.38
040	40	40	46-50 51-55 75-85 86-90	15	18	20	10 12	20 20	15.82	5	0.75	0.40
050	50	60	75-85 86-90	12	25	28	12	25	23.30	5	0.85	0.50



### Installation

Spirex couplings are precision units and must not be installed in natural position without pre-compression. The flexibility of the coupling may be adversely affected if installed, either in a compressed or a stretched condition.

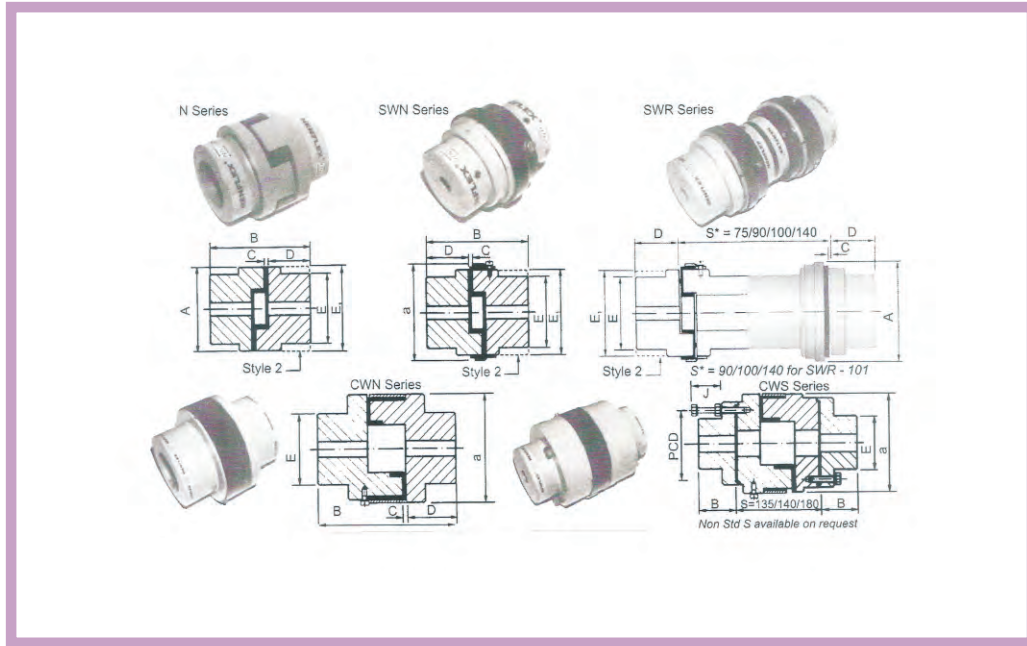
Clean the shafts to ensure that they are free from oil, grease or any other foreign substance.

Mount the spirex coupling on one shaft and fasten the locking screws. Refer the above figures for proper location of the coupling on the shafts. Similarly mount the second shaft into the coupling bore and fasten the coupling ensuring its natural position. In case of series SSR and SCR, the shafts may extend into the flexure area as shown.

Using a straight edge check the alignment at different points on the circumference, to ensure that the straight edge is in full contact over the entire length of the coupling.

Misalignment must not exceed the maximum permissible values specified. In case of skewed misalignment individual misalignments should not be taken at maximum.

# NENFLEX TORSIONALLY FLEXIBLE COUPLINGS



Series	Size	Nominal Torque (Nm) (At Service Factor 1)			Style	Bore		Max Bore Style 2	Dimensions (mm)									
		Std 80 Sh A Black	PU 80 Sh A Yellow	PU 90Sh A Red		Min	Max		A	a	E	D	C	B	E1	PCD	J	
N	65	3	4	6	2	X	X	16	27	X	27	15	1	42	27	X	X	
	85	6	8	10	2	X	X	20	36	X	36	20	2	53	36	X	X	
	91	10	12	15	2	9	X	22	44.5	X	44.5	20	2	53	44.5	X	X	
N	101	25	30	40	2	10	X	30	54	64	54	26	2	65	54	X	X	
SWN	105	60	75	90	1	10	30	40	65	77	52	28	2	74	64	X	X	
SWR	107	60	75	90	1	10	38	40	65	77	55	34	2	86	64	X	X	
	115	110	140	165	1	15	42	48	85	96	75	44	3	110	84	X	X	
	120	150	190	225	1	15	48	55	96	111	78	44	3	113	94	X	X	
	160	200	250	300	1	20	55	60	115	128	100	55	3	135	114	X	X	
	175	260	325	400	1	20	60	65	127	141	106	65	3	155	125	X	X	
N	226	340	425	510	1	25	65	X	137	143	115	70	3	178	X	102	92	
CWN	276	540	675	810	1	30	75	X	157	163	127	80	3	200	X	105	107	
CWS	280	860	1075	1290	1	30	75	X	194	200	140	80	3	200	X	160	70	
	295	1300	1625	1950	1	40	90	X	239	246	160	95	3	238	X	200	80	
	2955	2200	2750	3300	1	50	100	X	239	246	180	108	3	264	X	200	80	
	300	3050	3800	4575	1	50	100	X	258	266	180	115	3	283	X	216	85	
	350	4325	5100	5740	1	50	115	X	309	317	200	128	3	309	X	252	85	

**New Improved SWN/ SWR Wrap-Around Insert**

Special shape profile which does not result into a 100% contact at no load condition & thereby prevents heat build-up & hysteresis failure

Spacer ribs no longer require gaps to be maintained during assembly

Vertical Ribs grip the wrap around element firmly within the steel retaining ring

**The new Drives & Drives advantage !**

**Conventional Spider**

No Load Condition      Nominal Torque      Conventional Spider Under Load

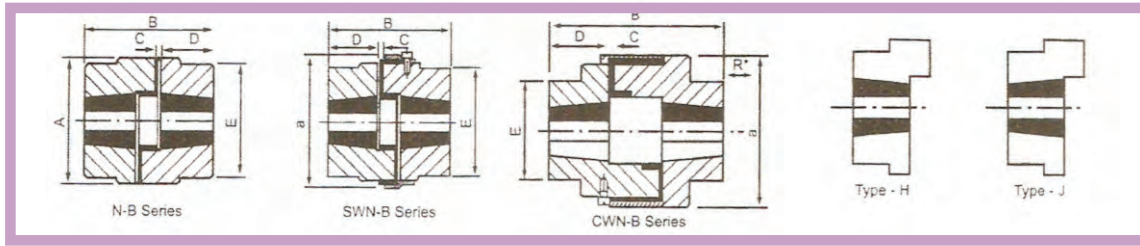
**The New Drives & Drives Improved Spider**

No Load Condition      Nominal Torque      New Drives & Drives Improved Spider under Load

Standard

Coupling Size	▶	65	85	91	101	105	107	115	120	160	175	226	276	280	295	2955	300	350
Maximum Radial Misalignment - a (mm) at 1500 rpm		0.20	0.20	0.22	0.25	0.28	0.28	0.32	0.36	0.38	0.40	0.42	0.48	0.48	0.50	0.52	0.52	0.52
Maximum Angular Misalignment - b (deg) at 1500 rpm		1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.2°	1.2°	1.2°	1.2°	1.2°	1.2°	1.3°	1.3°
Maximum Axial Misalignment - c (mm)		0.60	1.00	1.20	1.40	1.50	1.50	1.60	1.70	1.80	1.80	1.80	1.80	2.00	2.00	2.00	2.10	2.10

## TORSIONALLY FLEXIBLE COUPLINGS



Nenflex B series are couplings with Taper Bushes, which provide for a shrink fit of the coupling on to the shaft by using a standard hexagon wrench. Select the mounting options either with TYPE H or TYPE J Hubs. All Nenflex couplings come with the new generation of Nenflex Spiders which are the subject matter of a patent and the result of a thorough CAD analysis and practical dynamic tests.

Our R & D has now developed the PU technology to offer a variety of high performance insert materials, which are tested on our unique dynamic test bed, simulating real life like conditions that prevail on a spider while the coupling is rotating.

Series	Size	Nominal Torque (Nm)			Max. Bore	Taper Bush No.	Dimensions (mm)							Approx Weight (solid) Kgs
		Std	PU	PU			A	a	E	D	C	B	R	
		80 Sh A Black	80 Sh A Yellow	90 Sh A Red										
N - SWN - B	107	60	75	90	28	1108	65	77	64	24	2	66	29	1.2
	115	110	140	165	32	1210	85	96	84	27	3	76	38	2.5
	120	150	190	225	32	1210	96	111	94	27	3	79	38	3.2
	160	200	250	300	42	1610	115	128	114	27	3	79	38	4.6
	175	260	325	400	50	2012	127	141	125	34	3	93	42	5.6
N - B CWN - B	226	340	425	510	50	2517	137	143	115	34	3	106	48	8.2
	276	540	675	810	60	2517	157	163	127	47	3	134	48	13.4
	280	860	1075	1290	60	3020	194	200	140	47	3	134	48	17.6
	295	1300	1625	1950	75	3020	239	246	160	53	3	154	55	33.4
	295.5	2200	2750	3300	75	3020	239	246	180	53	3	154	55	36.0
	300	3050	3800	4575	75	3020	258	266	180	53	3	159	55	38.0
	350	4325	5100	5740	90	3535	309	317	200	89	3	231	67	72.0

## POWER Capacity At Different Speeds in kW.

\* R - Min Wrench Clearance

Size	Type *	NT **	100	200	400	500	720	960	1000	1440	1500	1600	1800	2200	2400	2880	3000	3600
101	B	2.5	0.26	0.52	1.05	1.31	1.89	2.51	2.62	3.77	3.93	4.19	4.71	5.76	6.28	7.54	7.85	9.43
	Y	3.0	0.31	0.63	1.26	1.57	2.26	3.02	3.14	4.52	4.71	5.03	5.66	6.91	7.54	9.05	9.43	11.31
	R	4.0	0.42	0.84	1.68	2.09	3.02	4.02	4.19	6.03	6.28	6.71	7.30	8.76	10.05	12.06	12.57	15.08
105/107	B	6.0	0.63	1.26	2.51	3.14	4.52	6.03	6.28	9.05	9.43	10.05	11.31	13.82	15.08	18.10	18.85	22.62
	Y	7.5	0.79	1.57	3.14	3.93	5.66	7.54	7.85	11.31	11.78	12.57	14.14	17.28	18.85	22.62	23.56	28.28
	R	9.0	0.94	1.89	3.77	4.71	6.79	9.05	9.43	13.57	14.14	15.08	16.97	20.74	22.62	27.14	28.28	33.93
115	B	11.0	1.15	2.30	4.61	5.76	8.29	11.06	11.52	16.59	17.28	18.43	20.74	25.34	27.65	33.18	34.56	41.47
	Y	14.0	1.47	2.93	5.86	7.33	10.56	14.07	14.66	21.11	21.99	23.46	26.39	32.25	35.19	42.22	43.98	52.78
	R	16.5	1.73	3.46	6.91	8.64	12.44	16.59	17.28	24.88	25.92	27.65	31.10	38.01	41.47	49.76	51.84	62.21
120	B	15.0	1.57	3.14	6.28	7.85	11.31	15.08	15.71	22.62	23.56	25.13	28.28	34.56	37.70	45.24	47.13	56.55
	Y	19.0	1.99	3.98	7.96	9.95	14.33	19.10	19.90	28.65	29.85	31.84	35.82	43.77	47.75	57.30	59.69	71.63
	R	22.5	2.36	4.71	9.43	11.78	16.97	22.62	22.62	33.93	35.34	37.70	42.41	51.84	56.55	67.86	70.69	84.83
160	B	2.00	2.09	4.19	8.38	10.47	15.08	20.11	20.94	30.16	31.42	33.51	37.70	46.08	50.27	60.32	62.83	75.40
	Y	2.50	2.62	5.24	10.47	13.09	18.85	25.13	26.18	37.70	39.27	41.89	47.13	57.60	62.83	75.40	78.54	94.25
	R	3.00	3.14	6.28	12.57	15.71	22.62	30.16	31.42	45.24	47.13	50.27	56.55	69.12	75.40	90.48	94.25	113.10
175	B	2.60	2.72	5.45	10.89	13.61	19.60	26.14	27.23	39.21	40.84	43.56	49.01	59.90	65.35	78.42	81.68	98.02
	Y	3.25	3.40	6.81	13.61	17.02	24.51	32.67	34.03	49.01	51.05	54.46	61.26	74.88	81.68	98.02	102.10	122.53
	R	4.00	4.19	8.38	16.76	20.94	30.16	40.21	41.89	60.32	62.83	67.02	75.40	92.16	100.53	120.64	125.67	150.80
226	B	3.40	3.56	7.12	14.24	17.80	25.64	34.18	35.61	51.27	53.41	56.97	64.09	78.33	85.45	102.54	106.82	128.18
	Y	4.25	4.45	8.90	17.80	22.25	32.05	42.73	44.51	64.09	66.76	71.21	80.11	97.92	106.82	128.18	133.52	160.23
	R	5.10	5.34	10.68	21.36	26.70	38.45	51.27	53.41	76.91	80.11	85.45	96.14	117.50	128.18	153.82	160.23	192.27
276	B	5.40	5.66	11.31	22.62	28.28	40.72	54.29	56.55	81.43	84.83	90.48	101.79	124.41	135.72	162.87	169.65	203.58
	Y	6.75	7.07	14.14	28.28	35.34	50.90	67.86	70.69	101.79	106.03	113.10	127.24	155.51	169.65	203.58	212.06	254.48
	R	8.10	8.48	16.97	33.93	42.41	61.07	81.43	84.83	122.15	127.24	135.72	152.69	186.62	203.58	244.30	254.48	305.37
280	B	8.60	9.01	18.01	36.02	45.03	64.84	86.46	90.06	129.69	135.09	144.10	162.11	198.14	216.15	259.38	270.19	324.22
	Y	10.75	11.26	22.52	45.03	56.29	81.06	108.07	112.58	162.11	168.87	180.12	201.64	247.67	270.19	324.22	337.73	405.28
	R	12.90	13.51	27.01	54.04	67.55	97.27	129.69	135.09	194.53	202.64	216.15	243.17	297.20	324.22	389.07	405.28	486.33
295	B	13.00	13.61	27.23	54.46	68.07	98.02	130.69	136.14	196.04	204.21	217.82	245.05	299.51	326.74	392.08	408.42	490.10
	Y	16.25	17.02	34.03	68.07	85.09	122.53	163.37	170.17	245.05	255.26	272.28	306.31	374.38	408.42	490.10	510.52	612.63
	R	19.50	20.42	40.84	81.68	102.10	147.03	196.04	204.21	294.06	303.11	322.64	367.58	449.26	490.10	588.12	612.63	735.16
295.5	B	2.200	23.04	46.08	92.16	115.20	165.88	221.17	230.39	331.76	345.59	368.62	414.70	506.86	552.94	663.52	691.17	829.41
	Y	2.750	28.80	57.60	115.20	143.99	207.35	276.47	287.99	414.70	431.98	460.78	518.38	633.57	691.17	829.41	863.96	1036.76
	R	3.300	34.56	69.12	138.23	172.79	248.82	331.76	345.59	497.64	518.38	552.94	622.05	760.29	829.41	995.29	1036.76	1244.11
300	B	3.050	31.94	63.88	127.76	159.70	229.97	306.63	319.41	459.94	479.11	511.05	574.93	702.69	766.57	919.89	958.22	1149.86
	Y	3.800	39.79	79.59	159.18	198.97	286.52	382.03	397.95	573.04	596.92	636.72	716.31	875.48	955.07	1146.09	1193.84	1432.61
	R	4.575	47.91	95.82	191.64	239.55	344.96	459.94	479.11	689.92	718.66	766.57	862.39	1054.04	1149.86	1379.83	1437.32	1724.79
350	B	4.325	45.29	90.59	181.17	226.46	326.11	434.81	452.93	652.21	679.39	724.68	815.27	996.44	1087.02	1304.43	1358.78	1630.54
	Y	5.100	53.41	106.82	213.63	267.04	384.54	511.72	529.04	769.09	801.13	854.54	961.36	1174.99	1281.81	1538.17	1602.26	1922.71
	R	5.740	60.11	120.22	240.44	300.56	432.80	577.07	689.92	965.60	1011.67	1061.78	1208.00	1422.44	1542.66	1831.20	1883.33	2264.00

Type B - Std. 80 Sh A Black Type R - PU 90 Sh A Red Type Y - PU 80 Sh A Yellow \*\* N<sub>T</sub> - Nominal Torque at service factor 1



## MINIATURE DISC COUPLING

The Drives & Drives miniature disc coupling, designed for zero backlash precision drives like encoders, robotics, instrument and control systems aircraft equipment, radar, laser, optical and precision remote controls.

The coupling can handle shaft misalignments and transmit torque with near constant velocity.



Size	D (mm) Φ D	Bore		Torque (Nm)	Misalignment			Length with different assembly options						
		Min (mm)	Max (mm)		Angular (deg)	Parallel (mm)	Axial (mm)	SD		DD			SDD	
								1	1	2	3	1	2	3
025	25	1.5	10	0.45	3°	0.38	0.5	22	27	15	22	30	18	24
038	38	1.5	16	1.75	3°	0.45	0.8	35	42	22	32	48	26	36

Clamps are not furnished as part of the coupling and must be ordered separately.



### Series SD

Single Disc Coupling cannot accommodate parallel misalignments and is therefore recommended for use in pairs to bridge long spans.

### Series SDD

Twin Discs with hubs mounted at 90° to an intermediate spacer.

### Series DD

Twin discs with hubs mounted parallel to each other. Can accommodate parallel misalignment.

## Our other range of shaft couplings

### Torsionally Flexible Coupling

3-58,000 Nm.

Available with new improved spider design. Spiders also available in polyurethane.

Available with KWIK-FIX keyless bushings clamping hubs and shrink discs.



### ROBO – DX

Torsionally rigid, backlash free, flexible steel bellows coupling.

30-600Nm

Compensates for shaft misalignment. Temperature resistant all steel design. Maintenance free.

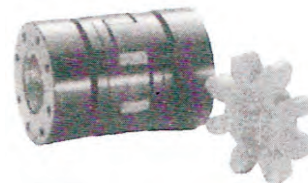
### Torsionally stiff All Metallic Membrane Couplings

80-60,000 Nm.

Available with KWIK-FIX keyless bushings and shrink discs.

High flexibility due to optimised disc design. High flexibility rigidity.

Also available to APL- 610/ API-671 standards.



### ROBA – ES

Backlash free flexible coupling 4 – 1310 Nm.

Damps critical vibration. Permits blind assembly.

### Smartflex

The perfect servo coupling

16-200 Nm.

Modular Patented Design.

Upto three times the misalignment capabilities of traditional all – steel couplings.



### ROBO – DS/ ROBO – DS

Torsionally rigid, backlash free all steel couplings.

30 – 16,000 Nm.

Patented Disk Pack Design. Very high torsional rigidity